Name: ..... **Class:**..... **Mark:**.....

1. Charley is creating a wireless hotspot for customers of a local coffee shop.

   (a) Different hardware is required to set up and connect to a wireless network.

   (i) State one piece of essential hardware that Charley will need in order to create the wireless signal for a customer to connect to. [1]

   (ii) State one essential piece of hardware that a customer would require in their computer to connect to the wireless network. [1]

   (b) Customers using the hotspot need to exercise caution in the data they send and receive from their computer.

   (i) Explain **one** reason why customers need to exercise more caution than if the network connection were a wired one. [2]

   (ii) Suggest **one** way that network data can be made more secure. [1]

2. Explain what is meant by the following terms: [3]

   Encryption:

   Plaintext:

Decryption:

3. A small business sets up a new wireless network, but devices do not get good reception in certain areas of the building.

   Explain **one** reason why this is the case. [2]

Total 10 Marks